Low-Impact Development (LID) Subdivision Demonstration Project:





A sub-project of the EPA-funded Ipswich River Restoration Targeted Watershed Grant

The Department of Conservation and Recreation (DCR) has been awarded a grant to pilot and quantify the benefits of low-impact development (LID) and water conservation techniques in the Ipswich River watershed. The purpose of the pilot projects is to enhance groundwater recharge and reduce water demand as a means to help restore flows to the Ipswich River. The program consists of nine pilot projects, including the LID Subdivision Demonstration project.

LID Subdivision Demonstration

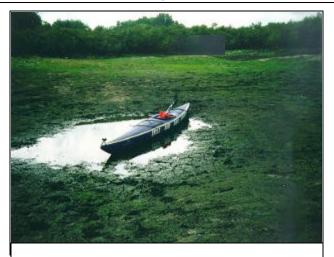
The LID Subdivision demonstration will be a residential or mixed-use subdivision that uses LID principles as the basis of design. DCR will provide funding of up to \$90,000 to a developer or consultant with an existing or proposed subdivision project to partner with DCR to use the site to:

- Demonstrate the feasibility and benefit of combining a wide range of LID techniques into a single development
- *Obtain measurements* to quantify the recharge associated with the demonstration site

What Projects Are Eligible?

Candidate projects must already be conceptualized and meet these criteria (see the complete Request for Response (RFR) for all evaluation criteria):

- Site is located within the Ipswich River Watershed (see map, next page).
- Site is *EITHER* already designed based on LID principles *OR* is early enough in the planning and design process that LID principles can become the basis for design.
- Project is able to be permitted, planned, designed, and constructed by June 30, 2007.
- Funding/financing is in place to support its completion, independent from the assistance to be provided through this contract.
- Geologically, the site is conducive to groundwater recharge and total runoff measurements.



The Ipswich River has been stressed by extreme low-flow conditions. 1997 photo by D. Armstrong.

What is LID?

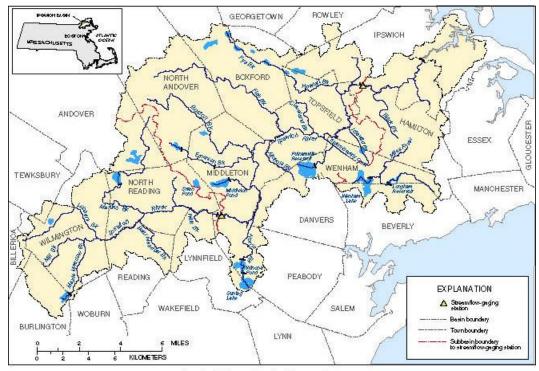
LID principles focus on restoring or retaining the predevelopment hydrologic conditions of a site by:

- Maximizing the use of natural vegetation, natural site grading, and open space for non-structural stormwater infiltration
- Minimizing impervious areas
- Decentralizing stormwater recharge
- Minimizing underground stormwater conveyance structures

Constructed LID features of the subdivision may include, but are not limited to: rain gardens, open swales, bioretention areas, vegetated buffers, porous paving materials, and vegetated roofs, all of which can reduce stormwater runoff and improve site aesthetics. For more information, see: www.mapc.org/lid.

Benefits to Participants

- Receive funding of up to \$90,000
- Participate in a nationally recognized project
- Demonstrate leadership in innovative approaches to land use and stormwater management
- Potentially improve marketability of project



Ipswich River Basin, Massachusetts

What Should Potential Projects Include?

The site must incorporate LID principles and practices into the layout and design – for example:

- Preserve natural vegetation and open space
- Minimize impervious areas, such as roadways, driveways, parking lots, and building footprints
- Minimize directly connected impervious areas
- Minimize alterations to the site's topography and soil disturbance during construction
- Increase drainage flow paths
- Match appropriate recharge areas with features such as rain gardens, bioretention cells, swales, and permeable surfaces. Pre-existing site grading should be used, where possible, to direct runoff toward recharge areas.

Project Schedule and Deadlines

Submit written questions to DCR	Aug. 26, 2005
Bidders' conference	Aug. 31, 2005
Responses due	Sept. 19, 2005
Project construction completed	June 30, 2007

How Can Bidders Access the Request for Response (RFR)?

- Go to Comm-Pass: http://www.comm-pass.com/
- Click on "Search for Solicitations" along the right-hand side of the page.
- Under "AND Search by Specific Criteria," enter the following in the box marked Document Number and click "search": DCR 137
- Click on the line at the <u>top</u> of the page, "There are 1 Solic itations(s) found that match your search criteria"
- Click on the eyeglasses icon to link to the solicitation.
- Click the "specifications" tab along the top of the summary to view the <u>entire</u> solicitation.

For more information, contact:

Sara Cohen, Water Resources Specialist Office of Water Resources Department of Conservation and Recreation 251 Causeway Street, Suite 800 Boston, MA 02114 Telephone: (617) 626-1374

Sara.Cohen@state.ma.us